Rec'd Jan 29
Ans Jan 29

Hacpos.

Aikt Chester Pa
Dr. G. Englemann Jan 14th 1863

Dear Sir

Having been exceedingly interested in botany for a number of years, and more particularly in the Coniferæ of latter times, I wish particularly to obtain all the information I possibly can in regard to the newer introductions or discoveries.

Noticing a brief sketch of the Pinus aristata - Engelmann - in the Gardeners Monthly, which was taken from Silliman's Journal, I wished much to know more about it, as none of my books described that species. My kind frds E. Tolmie and T. Meehan encouraged me to address you in regard to the subject, and I trust you will therefor consider my love for plants a sufficient apology

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

for intruding upon your notice.

If I am not too troublesome may I enquire whether any of your Correspondents have found the Cornus Nuttallii. I have nearly all the Cornus both Native & Foreign in my Collection with this exception, and desire to ascertain if any one has the plant in Cultivation. Is it specifically distinct from C. florida, or only a beautiful Var.

I have long thought it should be in cultivation. I also would like your opinion upon the Generic division of Don in regard to Abies & Picea. Do you not think there are sufficient marked characteristics to make this distinction?

My kind old friends residing at this place — Dr Darlington & Joshua Hoopes are both very feeble and their energies are now becoming so low, that they cannot take that interest in plants, which was formerly their greatest delight.

With much esteem I am

Yours very Respectfully. Josiah Hoopes.

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Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Rec'd Nov 19th
Ans Jan 2 —

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Nov 18 1869

Dr G Engelmann
St Louis — Mo —

My dear Sir —

I have just arrived home from a very pleasant trip to the Sts of California. I had excellent opportunities to examine many species which I was uncertain about, & now hold contrary opinions in regard to some. No one knows better than myself the many errors contained in my little work, and shall feel greatly indebted to my friends for their close criticisms of the same, so that I may correct them in the future. I feel greatly disappointed in not seeing you when you were in Phila., but

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hope for that pleasure in the future. I feel doubly disappointed at this time, as I wished to hear your account of the Coniferæ of Europe.

I had very pleasant visits to Prof. Bolander & Dr Kellogg of San Francisco, and there saw many new things of interest. They spoke of you & expressed a desire to have you come & see their grand Vegetation, which I can assure will repays one for the trouble. Trusting to have the pleasure of seeing you at no distant day, I am

Yours very sincerely -

Josiah Cooper

Missouri Botanical Garden
George Engelmann Papers

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Missouri Botanical Garden

Rec Dec 13
Ans Jan 2

West Chester Pa Dec 8th 1869

My Dear Doctor—

If you are not too deeply engaged at present, might I be allowed the privilege of asking you a few questions? Have you ever noticed Oidium Tuckeri on any plant in America, and do you not think we have a Native Oidium on some species of Grapes? I thought last summer that the common Whitish Mildew was but a form of Botrytis, in its incipient stages, as I could properly mycelium underdeloped, as I could not find any capsules or spores, neither could I detect any of the bead-like swelling so prevalent on this class of fungi. Any hints as to the above, will be thankfully received—

If at any time I can be of service to you in any way, please command my services—

meanwhile I am

with great respect—

Yours Sincerely &c

Josiah Hoopes

Jos. Hoopes

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JOSIAH HOOPES. ABNER HOOPES. GEO. B. THOMAS.

Rec'd Jan 27
Ans Feb 2

HOOPES, BRO. & THOMAS.

Cherry Hill Nurseries,

WEST CHESTER, PA., Jan 24th 1870

Dr. G. Engelmann

My Dear Sir — I owe you an apology for not answering your very kind letter ere this, but I have been worked so hard during the past ~~month~~, I have had scarcely a minute to call my own — My stay in California was so very short, that I had to leave without seeing many things I was ~~very~~ anxious to examine, but still I had the pleasure of studying several, and I can assure you, I was well paid for my trip. Abies grandis is a lovely tree, but the cone and leaf very like that of its contemporary A. amabilis, although somewhat smaller than the latter. Each are far superior in appearance to any species I have ever seen. I wished to find A. nobilis, but was informed by Prof. Bolander, that it grew further south & that the country was very unsafe for travellers at present. Of A. Albertiana or A. Bridgii I have nothing to say, but would like to learn something

definate Concerning it. A. bracteata I did not see, A. Douglasii is a plenius tree, did you see any varieties of it in Europe? I think Dr Kellogg told me that A. Mertensiana, A. Hookeriana, and A Pattaniana, Yes, and A. Williamsonii, were all one and the same thing, In this I think he is wrong. Did you meet with Mr Lawson in Edinburgh? I think his classification & description of these Spruces the best I have seen. I had no opportunity of seeing live specimens. As I did not see Cupressus Lawsoniana, nor C. fragrans of Kellogg, can you throw any light on the specific difference? I incline to think the Doctor a little hasty in the latter name. I was not in the neighborhood of any Cypress. Libocedrus occidentalis I think a good species and a pretty tree of large size (40 ft) growing on a high peak of the Sierra Nevada above the Yo-Semite valley. Larix occidentalis I did not see, not being far enough north. I rather think it will hold its specific distinction, although closely related to L. americana. And now for the Pines. I rode for days through dense forests of these with my pockets filled with Cones & I worked them out as I passed along, & at night after

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HOOPES, BRO. & THOMAS.

Cherry Hill Nurseries,

WEST CHESTER, PA., 18

Rec Jan 27

2nd Shut.

be stopped to rest. However I found many items of intrest. P. ponderosa is a noble tree, but P. Benthamiana I think only a myth, I should like to ask if you saw in Europe any tree bearing this name that was botanically distinct from P. ponderosa?

P. Jeffreyi, puzzles me, The tree is ex-actly alike the ponderosa, but the Cone is very distinct, therefore I suppose it must be sufficiently marked for a separate clas-sification, The Cone is large, diffrunt in form, as are also the Scales. The latter very diffrunt. P. contorta, I am afraid cannot stand, as it is too near P. inops, but I can assure you it is a far more beautiful tree, and I only saw it at very high elevations, Cones much smaller — do. seeds. The general appearance of the tree does not suggest P. inops, but an inspection does. P. edulis and P. Fre-montiana has been suggested to me as the same. I think not. The Cones of the former are exceedingly small & bear seeded. The latter

have very much larger Cones, of a peculiar greenish color, producing many seeds & rather larger than edulis. P. Fremontiana & P. monophyllus are the same. P. Torreyana is a good species I think. P. flexilis I think is also good. P. Lambertiana, I shall not soon forget, with its great body & ft in diameter and running up into the air 200 ft high - 100 ft without a limb in many instances. I measured Cones 20 inches long. P. monticola has shorter leaves, and a Cone larger than ~~P. Peuclea~~ P. Strobus but smaller than P. excelsa, otherwise as in Strobus, I am inclined to think it a variety - of the latter - The tree is almost identical. P. radiata & P. insignis are the same. P. Sabiniana is very distinct. The branches are divided at the top, & therefore one never sees a conical shaped specimen. I had a glorious time among the Sequoia groves. What a blunder in my book - placing it among the Abietineæ. Thuja gigantea, Torreya Californica and Taxus brevifolia all good species I think. I wish I had more time to tell you of the very many things I saw in other genera, but I cannot at present - Sincerely Your friend

Josiah Hooper

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JOSIAH HOOPES. ABNER HOOPES. GEO. B. THOMAS.

Rec'd Febr 24th

HOOPES, BRO. & THOMAS.

Cherry Hill Nurseries,

WEST CHESTER, PA., Feb 19th 1870

Dr J Engelmann

My dear Sir: Your favor of the 12th to hand. You have given me some excellent hints for which I sincerely thank you, and trust that in the future you may acquaint me with your views in regard to any corrections needed in the Nomenclature of our Conifers. In my work, I did the best I could from my scanty materials, — such as our Herbarium in the "Acad of Natural Sciences" and in my own Collection; as well as living Specimens imported from Europe. After this I was forced to fall back on the authorities and here I found terrible discrepancies. I have now a fine Collection of Cones to start on, and greatly desire to increase it. What I need are good Herbarium Specimens with the flowers. The coming season I wish to have some procured for myself & friends.

And now for your questions. I can very well distinguish Abies grandis and A. amabilis by their organs of vegetations, and general appearance. but as to their flowers I am unable to speak from personal experience. Growing together and in great abundance on the summits of the Sierra Nevada, I had excellent opportunities of studying them well. They do

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appear very unlike. A. grandis is almost strictly 2-
ranked in foliage, & of a rich glossy green in color, leaves
long and incurved. A. amabilis appears almost
identical in outward appearance with A. nobilis.
and a casual observer of the foliage would say they
were alike. The leaves have a beautiful glaucous
blue color. But the Cones, which I place great
dependance upon, are much alike in grandis and
amabilis, - the former being ~~xxxxxxx~~ smaller only.
I have never seen the flowers of either. Suttall
may not have been wrong in his suggestion as to their
similarity. Am very glad to have your ideas on
the classification of A. Alberiana, A Hookriana &c
Have you seen "Lawsons Pinetum"? he gives good
drawings and descriptions of them. I am yet in
doubt as to Pinus Jeffreyi. I studied it as well as
I could whilst in California, and only wish I
could get at the flowers. I have P. ponderosa cones,
but lost my specimens of P. Jeffreyi. Quoting from
memory, cones of the latter are larger and more
ovate than those of the former. The scales are also
quite unlike — not mucronate if I recollect cor-
-rectly. The seeds themselves are identical. I had
quite a discussion with both Bolander & Kellogg
on this subject, and they did not like to give up the
specific distinction, although they acknowledged
the two in vegetation were precisely alike. They
had good specimens of cones of each. You quite
astonish me by saying P. contorta is Murrayana,
I thought the latter a very distinct tree, and of
course have been under a great mistake. I have
good specimens of leaves & cones of P. contorta

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P. muricata I do not think sufficiently distinct from P. Strobus, but I frequently saw it with very short leaves, and larger cones than the latter. I have good specimens of cones in my collection. I have also good cones of P. tuberculata in my Cabinet although I did not see the trees growing in California. Dr Parry sent me your published Notes on Conifers which interested me greatly.

If at any time I can do anything for you in the way of specimens, please command my poor services — It will be a pleasure. I shall always be happy to hear from you, and to receive notes on the nomenclature of the Conifers

Yours very sincerely

Josiah Hoopes

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Rec: Oct 27/71 Taxodium distichum

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Oct 23-1871

Prof Geo Engelmann
St Louis — Mo

My Dear Sir — Yours of the 6th duly to hand — And the manifold cares of business at this season has prevented my replying sooner. I have been afraid for some time that Glyptostrobus pendulus could not stand according to Endlichers generic description, owing to the Taxodium distichum sporting into forms almost identical with the former. I have never seen the fruit nor flowers of G. heterophylla & doubt if it has ever fruited here, as I have not been able to find it at all. Shall try it again however. Sent out 5 specimens of G. pendulus, but will remember your next year. The Cotyledons 2-3

I Taxodium in my book is cer-
-tainly incorrect, as are several
other errors. I felt sure I did
not so write it. I thank you
very heartily for your interesting
letter and the information con-
-tained therein. I should like
specimens of the Arapolitan Taxodium
you allude to, and am freely
enough to wish for any thing
new or rare for my herbarium.
Especially good specimens of Abies
Engelmanni, as I cannot get the
the very distinctive features.
I have just had specimens in fruit
sent me of Cephalotaxus Fortunii,
formerly known by Foreign botanists
as the male plant C. F. mas, whilst
C. drupacea was described as C. F. femina
I detected years ago that the former
had the female organs complete, &
now I am satisfied. Will try & get
you a specimen. Yours sincerely
Josiah Hoopes

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JOSIAH HOOPES. ABNER HOOPES. GEO. B. THOMAS.

Rec'd Nov 18
Ans Feb 16

HOOPES, BRO. & THOMAS.

Sec. Fortune

Cherry Hill Nurseries,

WEST CHESTER, PA., Nov 14th 1871

Dear Doctor.

Your kind favor of the 1st duly to hand. I should have answered the same before this, but our business has confined me very closely to the office.

I have been trying to get a specimen of Cephalotaxus Drupacea in fruit to send you, but the persimmons and the animals, birds, &c, eaten them up. Indeed they are very pleasant eating, almost like a perfectly ripe persimmon. Next year I am promised a liberal supply. As regards the position of the Anmts in C. Fortunii, I notice the same peculiarity as you mention. I will bear in mind this feature during the flowering season next year. The fruit of the C. Fortunii furnished you was procured from an old plant in the vicinity of Philad^{a}, I cannot state the party's name or exact place of residence, nor can I say what is its exact period of blooming, although I know it to be very early in Spring, a few warm days only, being required to start the buds, these being formed the previous autumn as you are doubtless aware. The examination of the

gradual development of the bud — the female
aments, &c, will indeed prove to be an inter-
-esting study, and you may depend, I shall
avail myself of the opportunity, provided I
can obtain specimens — It strikes me that
I have specimens in my Herbarium of C. Du-
-faca in bloom or at least in bud, and if so
will send you some. I intend making
up a little package to send you per mail, of
various odds and ends, some of which may be
new, or may not, but I can appreciate
anything of this kind so thoroughly, that I am
sure in the belief that you always desire
such, whether new to you or not, as purchaser
some new feature may be apparent. And now
for the Cryptostrobus pendulus question. For
years I have thought that the morphology of the
leaves had little bearing on the specific distinc
-tions of plants — but lately of latter times they
are showing such queer freaks, that my pre-
-conceived ideas are receiving from many shocks.
The one genus Retinispora — which (by the way —
(is not a good genus by any means) has a large
number of species or varieties — not having seen
any fruit, I cannot tell which they are, — embrace
all kinds of odd forms, even changing at one or
two years into totally distinct plants —

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Rec'd Nov 18 1871

We have some with the Heath-leaved form of foliage, then again with squarrous arrayed leaves and others with the foliage compressed, & so on, — and yet I dont believe there are more than two or three real good species in the whole lot.

Look at Thuja & Biota with their heath-leaved forms, and now why not Taxodium as well. I am well that Taxodium distichum & so called Glyptostrobus pendulus (as every one in this country, and European Nurseries have it) are generally distinct, and I fear we have not yet sufficient grounds to even base a specific difference upon save the various foliage, upon which I cannot put much reliance. At one time I imported from several European Nurseries, all the species of Podocarpus I could obtain, and the P. Japonica (a cut of which is in my book) was identically the same in each collection. It is also the same in every collection in this Country. I may be wrong, but I have never seen P. Koriana although I want to test it — May it not be the same as the former? Many thanks for your Correction in name of Cephalotaxus — I never noticed it, although I saw my error the moment you called My attention to it. At any time I shall feel thankful to you for similar Corrections.

I again repeat that specimens of Cones or for my herbaria are always gladly rec'd, and I will endeavor to send you such rare or odd forms as may prove interesting to you. Meanwhile I remain

Yours ever, Sincerely Yours —

Josiah Hoopes

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Rec'd Jan 18
Ans'd

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Jan 15 1872

Dr Geo Engelmann

My dear Sir – I send you by this mail – a little package containg specimens of Juniperus Chinensis, Var – twigs in fruit, just taken from the tree, and then forced specimens of the male & female plants, in flower. I have been somewhat in doubt as to their Correctness, but they are the plants in Cultivation for that species, – I thought you would also be interested in examining it so fully. I likewise enclose specimens of Ceph. Drupacea in bud for you to examine, It is always very floriferous, except the C. Fortunii is not –

Yours in haste
Josiah Hoopes

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I have never been able to trace out the *A. robusta* of the English gardens nor *A. magnifica*, but had intended looking the matter up, but I have been (nothing) with the apparent distinction existing between *A annabilis* & Douglas & the plants I saw on the Sierra Nevada. Of the two forms of *P. Contorta*, there is a marked difference, as seen on the summits of the Cal. Mts, and those growing on the Mts. of Colorado. I send you a young cone of *A. balsamea*, likewise herbarium specimens of the Male and female flowers — but I have no *A. Fraseri* at hand. Always glad to hear from you.

Cordially Yours
Josiah Hopkins

Rec'd June 11th 1872

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Josiah Hoopes.
Abner Hoopes.
Geo. B. Thomas.

Rec^d Dec 11th
Ans — 20 —

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Dec 8th 1873

My dear Archer.

It seems a long time since I have seen your familiar hand writing, and besides I was so very greatly disappointed in not having a good long chat with you at St. Louis, that I thought I must send you a few lines to assure you of my respect. An Oak in this vicinity has bothered me not a little, and so I have enclosed specimens in a box and sent to your address.

Also enclose a strong plant of the Aquilegia Coerulea, and an Aloe that I should like to know about. I wish you would Come on and see us once more, I would dearly love to have you among my succulents. If anything of interest occurs to you in the way of Conifers will you not let me know it? My Note Book is always open for such items, and I confess I dont altogether like the way that some folks are rearranging the species at present.

I rely greatly on your Judgement in this matter, and have often indulged the idea that I would ask you to give me a list of the North American Coniferæ, arranged according to your idea of correctness.

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Should my life be spared, I would like to leave my friends as a memento, a large illustrated work on the Coniferæ of North America, and with that view I am all the time collecting facts and material of every description that might add interest to the same. Of course such a work should be popular, but strictly correct scientifically, as we can thus very often infuse some little interest in people who care nothing for Science of any kind. I have never mentioned this subject to any one (save Mr. Meehan) excepting yourself, and if ever performed, it will be in years to come. So that I reiterate, if you come across any ideas or facts relative to any Conifer do please remember my enthusiasm in this respect, and share your knowledge with me. If there are any plants you desire, and that I can procure for you, do please command me.

Sincerely Yours &c

Josiah Hoopes.

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Rec Dec 31

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Dec 27th 1873

My Dear Sirs.

Yours with deeds to hand. Many thanks. I have Pinus & Retinospora like cuneata of Pinus Elliottii from Ravenel of S.C., who kindly furnished a complete set of all the Conifera of the South.

I alluded to Prof. Parlatore's classification in my former letter.

Although wrong in favor of condensing the species and even genera, when such can be done judiciously, yet I do think P. has been entirely too sweeping in this particular. The idea of classing Pinus, Abies, Larix, &c. &c. all under the general name of Pinus is a little too much of a good thing. I know he had good authority for this course, and that he was merely following a precedent, but still I believe that the generic lines are so plainly drawn

GEORGE ENGELMANN PAPERS

true, that the popular voice in our country at least, would never sustain such a course. I cant quite yet make up my mind about Pinus edulis, P. monophyllus, &c. &c. Many specimens from the Rocky Mountains and the Sierra Nevada, as to die hard that I cant quite class the species, and at the same time under the present régime it seems impossible to think they are the same. How about the Thesium smokers. I am mortified to be obliged to add that I lost all my collection of Conifers this summer, and therefore have to depend very much upon my memory. In the vicinity of Pikes Peak, Colorado, I make out three (3) distinct forms.

The first, J. occidentalis, which I contend is a good and distinct species. Secondly, a form of J. virginiana with light glaucous bluish foliage, and small glaucous fruit. And lastly a dwarf form of J communis, somewhat

in the way of var. alpina.
This last is very distinct; so much so, that I have been a little puzzled over it. Prof Porter who examined over this found last summer at the same time does not quite agree with me altogether; but I can not for some in my estimation.

A curious fact in this dwarf form, is the fact that on frequently select plants with beautifully variegated flags. Sometimes several in a group — but whether they have been reproduced from seed or are merely the effect of the peculiar dry location, and high altitude, I am at a loss to say. I saw that very handsome Aconitum Napellus Uncinatus (?) while passing through Hamilton Pass last summer. It is pretty

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GEORGE ENGELMANN PAPERS

hardy, with its thick fleshy
foliage. The Aquilegia Ca-
nadensis has proven entirely
hardy in all situations, with-
out the least protection. It
does not seem to mind the
extremes of heat nor cold —
dry nor wet: and is really the
most charming flower in my
collection. Again I wish to
call to the Primula Parryi,
and transplant home a dozen
strong plants. But all of no
use, they gradually dwindled
away & died. My seedlings all
damped off, and so I am when
I started with them. If at
any time — any species of Cacti
should come into your possession
and you have duplicates please re-
member my little Collection. I
have thought frequently that I should
greatly love to have a piece from some
of her Texas plants. Sincerely &c J. Hooker

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Rec Jan 29 14
Ans Apr 22

HOOPES, BRO. & THOMAS,
CHERRY HILL NURSERIES,
WEST CHESTER, PA.

Jan 26th 1875

My Dear Doctor.

Having been from home all the last summer as well as much of the winter, my personal correspondence has been sadly neglected. But I have time and time again refurred to you in memory and ardently wished for a good long social chat with you about Conifers especially. This time I had a very interesting visit to the Edinburgh Botanic Garden, and saw very much that I could not agree with, as well as some things that were new to me. They have two very distinct forms of Pinus contorta, one upright as we find it in Colorado and in California, and the other a very straggling grower. I think their Abies magnifica is what Bolander & Kellogg call A. amabilis as it grows on the summits of the Sierra Nevada, and when I found it a few years since. I felt satisfied then that it was not A. amabilis but, and so stated to three gentlemen, but they consulted me. By the way I understood that you had rediscovered the A. concolor and I want very much to know all about it. Where will I find a published description of the species?

I found it at two different times on the sides of Pikes Peak, and on the Fort Hills in Colorado, but I could not possibly see any distinctions in it from Abies grandis. In other words after carefully examining leaves and cones of the two forms (as I took them to be) in these localities; — one with greenish-colored cones, and the other with purple, — I came to the conclusion they were not specifically distinct, and so noted it in my Book. I shall be glad to be put right in this matter however, as I am always open to conviction.

What a terrible fellow for new species & varieties, this Rezl is. I see in the London papers heading lots of new Conifers. Among them are the A. concolor and var. Vivlacea. A form of the Douglas Spruce with silvery leaves, &c. &c. &c.

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GEORGE ENGELMANN PAPERS

Mr Meehan told me I had sent you a copy of his magazine with my short paper on Thuja Standishii. — I felt a little hesitancy about it, because I have mislaid my pen cones and therefore was entirely unable to describe it technically as I should like. I feel the disappointment keenly, but hope for better luck next year, as I see a few flowering buds on my little plant at present. Thuja plicata of Don (as I have it) is an excellent well-marked variety so far as the manner of growth is concerned, but the cones are identically the same as Thuja occidentalis.

Pray send me all you can, of published papers on our North American Conifera, for filing away, to be used some time in the far distant future, on my contemplated work; a work that I desire to be practical as well as scientifically exact, so as to benefit my fellow tree planters in this country. I want especially to know more about the Pines of Lower California, and all the Conifers of Mexico, especially the Junipers, as I am woefully deficient in information in regard to them. You are mistaken about Brickly's new genus (?) Hookeria arborea, it was named in honor of Joshua Hoopes, the good old botanist who has recently passed away from us. He was a very distant relative of mine. I am sorry however that it cannot stand, as he was well worthy of being commemorated in this manner. I never had the honor of having a species ever called for me, but if ever such a compliment could be paid to my poor services, I trust it may be among the Conifers. I want to know more about Pinus monophylla, P. edulis, &c. What is your opinion about them? I must confess to only a knowledge of one really good species, although there is a difference somewhat in Californian and Colorado specimens. If I am not correct I should like to know it. Did you ever see or know of an Eastern form of J. Virginiana, with dark green foliage, west of the Mississippi River? — I never saw any but the silvery glaucous leaved variety, and I sometimes think almost distinct enough for a species. Sincerely Yours &c

J. Hoopes.

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MISSOURI BOTANICAL GARDEN

Josiah Hoopes
Abner Hoopes
Geo. B. Thomas

Recd Dec 6

MISSOURI BOTANICAL GA
GEORGE ENGELMA

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Dec. 3r

My Dear Doctor-

It really seems a long time since I hav anything from you, and of all the letters I recei give me more pleasure than your own, as they to contain valuable notes on my hobby — "Conifers".

In looking over some of your former favors to-day, I notice a you speak of four distinct forms of the Nut-Pines, viz — P. cembroides (typical), edulis, monophylla, and what else? After carefully examining the P. contorta question, I am convinced of the correctness of your views, but I hardly think them sufficiently distinct for species. I should prefer arranging them as follows — P. contorta, Dougl. (Syn. P. Bolanderi of Parl), and var. Murrayana. But I find two very distinct forms of the latter in Colorado — the one very regular and handsome in growth, and the other exceedingly crooked and unshapely, indeed I noticed the same in the Edinburgh specimens, but failed to note which was the narrow-leaved, and which the broad-leaved form. I think the latter rarely forms a fine tree, and vice versa. Not having cones of Abies Pattoniana, A Hookeriana, and A. Albertiana to compare, I am still in the dark respecting them. As we receive the plants from England, they are certainly distinct; but are the cones?

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Abies Albertiana and A. Williamsonii are beyond a doubt synonymous, and I judge specifically distinct. Now what about the others? A. Pattonii is perhaps correct, with the others mere forms. I have two poor little cones of A Pattonii, but it does not look like the Hemlock Spruce at all, and is very distinct in every way. I want to see your remarks on the Conifers badly, dont forget me among the first applicants. Indeed if you can put me in the way of obtaining anything relating to our North American Conifers, I shall be duply indebted. I am still adding to my note respecting them.

In respect to Mexican Pines, how are we to get an insight into them? Where can one obtain a list, and how is it possible to identify the same. I know of no good collection of herbarium specimens. I wish I had an undoubted description of each well-marked species. Another thing, I am curious in Agaves, Yuccas, and Aloes, and want young living plants of each. I already have a pretty good collection, and want more. Would you devise any young plants of Agave &c?

Should you hear of any reliable party who can supply me, I would thank you to let me hear. Hoping I have not been too troublesome, I am My Dear Sir — Sincerely Yours — Josiah Keeler

Josiah Hoopes
Abner Hoopes
Geo. B. Thomas

Read Dec 6th

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

P.S. I open this letter to say, Since writing the enclosed I find the 4th Nut-Pine to be your P. Sabiniana. Also you once said there was no Abies Brandis in California, what is it then, so plentiful on the Sierra Nevada Mts. I found it there in Sept.mber, or at least the long-leaved, large cone form, called — var. Californica.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

to contain valuable notes on "My theory — "Conifers".

In looking over some of your former favors to-day, I notice you speak of four distinct forms of the Nut-Pines, viz — P. cembroides (typical), edulis, monophylla, and what else? After carefully examining the P. contorta question, I am convinced of the correctness of your views, but I hardly think them sufficiently distinct for species. I should prefer arranging them as follows — P. contorta, Dougl. (Syn. P. Bolanderi of Parl), and var. Murrayana. But I find two very distinct forms of the latter in Colorado — the one very regular and handsome in growth, and the other exceedingly crooked and unshapely, indeed I noticed the same in the Edinburgh specimens, but failed to note which was the narrow-leaved, and which the broad-leaved form. I think the latter rarely forms a fine tree, and vice versa. Not having cones of Abies Pattoniana, A. Hookeriana, and A. Albertiana to compare, I am still in the dark respecting them. As we receive the plants from England, these are certainly distinct; but are the cones?

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Garden

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Rec'd March 20th
23

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. 3/17 1876

My Dear Doctor.

I am in a quandary about the Cupressus, and send you to-day nine specimens of two species (?). No 1. as I make it by my herbarium specimens, is C. macrocarpa, Hartweg, grown around San Francisco as the Monterey Cypress. No 2. I cannot exactly determine, having thought it a well-marked variety at first, but now think it a species, but what? This latter was collected on the Mountains in the interior, forming a large grove covering several acres, and is distinguishable from any other species, by the parties who found it. I do not desire to hazard a guess in the matter, but wish to have the benefit of your judgement. Hope to see you at the Centennial, and to have a cozy chat with you in my study the coming summer.

Sincerely Yours.
Josiah Hoopes

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GEORGE ENGELMANN PAPERS

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Josiah Hoopes.
Abner Hoopes.
Geo. B. Thomas.

Hoopes, Bro. & Thomas.
Cherry Hill Nurseries,

West Chester, Pa. Sep. 22nd 1876

Dr Geo. Engelmann.

My Dear Sir.

I wrote you some time since hoping that I might have the pleasure of seeing you under my own vine and fig-tree, but thinking now that you might have been from home at the time, I again bespeak for a visit whenever you may deem it most suitable for your plans. I know your time is precious these Centennial days, but I may possibly have some little thing here that might interest you. We have lots of spare room and should very much like to have you over night and as long as you could make it convenient to stay, but in this matter you must be the judge, and I should be thankful for what time you could spare me. If Mrs Meehan could be persuaded to come with you I should be highly delighted.

Sincerely as ever to—

T. Hoopes

MISSOURI BOTANICAL G[illegible]
GEORGE ENGELMANN PA[illegible]

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Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Rec Nov 23
Ans Dec 2

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester Pa. Nov 21- 1876

My Dear Doctor — Right glad was I to hear from you, and that your visit here was of some interest. In regard to the Carya specimens, I do not think we have the *C. Sulcata* at all, but a very remarkable large-fruited form of *C. alba*. It does not come from Virginia as I understand it, but my impression is, that the specimens grown not only in my own collection, but in that of the late Joshua Heeps' came originally from the banks of the Schuylkill River in this State. I think I can trace it up however.

Thanks for buds of *Ulex* and *Celtis*, and a few nuts of *C. Sulcata* would also be very acceptable. I do not desire to burden you with Commissions, but if you could permit upon Mr. Shaw to send me a few Cuttings of his various Cacti and other Succulents, I should indeed feel greatly indebted to you. Having now a home

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wherein to grow and study these plants, I feel very anxious to gather in everything of the kind for comparison. If I had a list of Mr Shaw's succulents I might possibly be able to send him something in return.

Sincerely Yours

Josiah Hemsley

P.S. My parents unite with me in kindest regards to you.

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Rec'd Feb 25

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. 2/22 - 1878

Dr. Geo. Engelmann.
St Louis, Mo.

My Dear Sir.

I am very greatly indebted to you for recent publications, and although I have not had time to read them our carefully, still I have looked all through the set, and feel that I may say, every one who takes the least interest in botany, owes you a debt of gratitude for the very careful and conscientious manner that you have performed the task.

In the main I can fully agree with your classification, but there are some few particulars that I cannot yet fully understand, probably because I have not studied them with your well-known care.

Sincerely Yours -
Josiah Hoopes

(No. 285.)

INTERNATIONAL EXHIBITION.

PHILADELPHIA, 1876.

The United States Centennial Commission has examined the report of the Judges, and accepted the following reasons, and decreed an award in conformity therewith.

Philadelphia, February 9th 1877.

REPORT ON AWARDS.

Product, *Ivies, Evergreen Trees and Plants*

Name and address of Exhibitor, *Hoopes, Bro. & Thomas*

Westchester, Pennsylvania

The undersigned, having examined the product herein described, respectfully recommends the same to the United States Centennial Commission for Award, for the following reasons, viz:

1st An interesting collection of Ivies of healthy growth and carefully and neatly trained and exhibited

2nd A most complete and valuable collection of the Coniferous family, in perfect condition of healthy growth, arranged and named with precision and accuracy

Very creditable exhibit.

George Thurber

Signature of the Judge.

APPROVAL OF GROUP JUDGES.

W. D. Brackenridge

T. Pentland

Wm. Saunders

A true Copy of the record.

Thos. S. Wacken

Chief of the Bureau of Awards.

Given by authority of the United States Centennial Commission.

SEAL

A. T. GOSHORN,
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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Josiah Hoopes.
Abner Hoopes.
Geo. B. Thomas.

Rec June 13 '1
Ans — 14

HOOPES, BRO. & THOMAS,
CHERRY HILL NURSERIES,
WEST CHESTER, PA.

June 11th 1878

Dr Geo Engelmann
St Louis. Mo.

My Dear Sir. Your welcome letter of the 7th just to hand. I am glad to have your views on the Spruces, and especially as they coincide so exactly with my own. I have carefully studied the characters of the Picea Menziesii true from Oregon, with the so-called P. Menziesii from Colorado, and now believe the latter to be an undescribed and good species. I had thought of publishing my views, but I so dislike to appear in print, that I have not done so yet. I am not entirely satisfied about the cones as there the greatest similarity occurs. As to the characters of vegetation, the distinctions are so well defined that any one can see them readily. I send you specimens of each with those of P. Alcoquiana and P. Engelmannii true. The latter I collected personally at the limit of arborescent vegetation on Gray's Peak. It is very closely allied to P. alba in every way. The cones are very similar. I think you will find that the leaves of P. Alcoquiana are pale green above and silvery white beneath. Later in the season the character is more marked. You are partly right and partly wrong. I don't think any of the leaves partly dimorphous all around, although those on the lower shoots are slightly 4-angled — at least I am unable to detect their essentials to a decent Spruce. My parents join me in kindest regards to you and yours.

Sincerely Yours
Josiah Hoopes

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Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Ans Jan 20
Ans — 27

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. 6/18 — 1878

My Dear Doctor.

After a careful examination of the leaves of Picea Alcocquiana, I find you are certainly correct in regard to the leaves being stomatose above and green below. I also find the upper surface somewhat angled or ridged (slightly carinate) and the under convex and canaliculate. On the horizontal branches they are evidently appressed and twisted as you observe. I have not Carriere's 2nd edition, as the author makes so many blunders I have never felt a great degree of confidence in him. I have Pinus Mandshurica, P. Mugho, and P. Bungeana. Do you wish Specimens? I feel obliged to you for calling my attention to the leaves of P. Brunzisii and P. Alcocquiana, they are very interesting, and I shall profit by it, as it opens up a new field of observation.

Yours sincerely &
J. Hoopes

(No. 235.)

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Very creditable exhibit

George Thurber
Signature of the Judge.

APPROVAL OF GROUP JUDGES.

W. D. Brackenridge
F. Pentland
Wm. Saunders

A true Copy of the record.

Thos. S. Wacken
Chief of the Bureau of Awards.

Given by authority of the United States Centennial Commission.

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Rec'd June 28
Ans same day

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. 6/25 1878

Dear Doctor

I enclose some seed-vessels of the Epochorda grandiflora from Japan. It was very beautiful in bloom. Flowers large and pure white, in great profusion.

It was sent out first as a Spiraea. I thought you would be interested in the specimens. By the way I have just managed to obtain a copy (unbound) of Humphrey Marshall's "Arbustum Americanum", the first work on trees in this country. It was a copy belonging to himself, and sold the other day with some of his personal effects, on the death of the last of his descendants. Write to ask if you have a copy; if not you shall have this, as I have another in my library.

Sincerely Yours
Josiah Hoopes

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Very creditable exhibit.

George Thurber
Signature of the Judge.

APPROVAL OF GROUP JUDGES.

W. D. Brackenridge
T. Pentland
Wm. Saunders

A true Copy of the record.

Thos. S. Wacken
Chief of the Bureau of Awards.

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Rec'd July 11th

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa 7/8- 1878

Dear Doctor

Yours of the 5th to hand - I did not notice any male flowers on the D. Benjeana, and think they must have passed away whilst I was from home. My plant is not over 3 ft high. The Cones of the this species are remarkably low down on the branch, and its general manner of growth is not unlike insignis and pungens. The older I grow, the more I learn not to depend too much upon the organs of vegetation. Those of fructification are as a rule more reliable, and especially so in the Conifera. That variable species P. ponderosa has completely mystified me on several occasions. I remember upon one occasion finding a large part of this pine, that I felt for some time quite certain was P. ponderosa. The bark, foliage, manner of growth, and even the Cones were so exactly

Product, Ivies, Evergreen Trees and Plants

Name and address of Exhibitor, Hoopes, Bro. & Thomas

Westchester, Pennsylvania

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Very creditable exhibit.

George Thurber
Signature of the Judge.

APPROVAL OF GROUP JUDGES.

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F. Pentland
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Chief of the Bureau of Awards.

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Name and address of Exhibitor. Theodore G. Hough

West Chester, Pa. 1st

2

similar, that I had some difficulty in believing I was in error. Then again I have seen specimens that approached the P. rigida so closely, that she comes almost had to settle the matter. P. mandshurica and P. cembra seem to me quite distinct, although I have never seen cones of the former. Then I cannot settle the matter of relationship. Earlier in the season I should have studied up the flowers of the pines more closely but the fact is my business occupied so much of my time, that I had but little for any favorite study, I hope however this will not always be the case. My pinetum is looking lovely this season, and I frequently wish I could have you here to enjoy it with me —

Sincerely Yours
Josiah Hoopes

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PHILADELPHIA, 1876.

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Very creditable exhibit

George Thurber
Signature of the Judge.

APPROVAL OF GROUP JUDGES.

W. D. Brackenridge
F. Pentland
Wm. Saunders

A true Copy of the record.

Thomas A. Wacken
Chief of the Bureau of Awards.

Given by authority of the United States Centennial Commission.

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Josiah Hoopes.
Abner Hoopes.
Geo. B. Thomas.

Rec Jan 19

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa. Jan 17th 1880

My dear Doctor

An apology is certainly due you for not answering your Kind favors before this, but my health has been so bad this winter, I was afraid to venture out far from home. However I am getting well again, and have just been out to the "Pinetum" after specimens, which I send you per mail to day. I enclose a sample of Pinus flexilis to show what fearful ravages a destructive fungus is making among the Pine family. Indeed so bad has it been during the past season, that I am greatly afraid I shall have to give up their culture hereafter. I have refrained from saying much about the Japanese Pines, simply because I have never had an opportunity for studying their flowers, and the leaf characters are not of much moment, owing to their variableness. I think my specimen of P. densiflora was collected by John Gould Veitch of London. My P. Massoniana I fancy is correct, — at least it closely resembles specimens from other localities, and all that I know of are hardy — Hope to give you more information further.

Sincerely Yours &c
Josiah Hoopes

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Cherry Hill Nurseries. West Chester, Pa., 7/26-1878.

Dear Doctor

I send you to-day a little box of specimens of Retinispora in fruit — The Sems cannot stand of course, it is too similar to Cupressus, and C. Lawsoniana is in fact a Retinis- pora, judging from its leaf coat.

Very respectfully yours,

J. HOOPES,

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Rec'd May 14
Ans —— 20

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa 5/10- 1883

My Dear Doctor.

It really seems a very long time since I have heard from you, but business affairs have seriously interfered with my friendly correspondence of late. I have been much interested in studying some specimens of Pinus Koraiensis Collected in Eastern Siberia by Chief Eng Melville of the unfortunate "Jeannette" during his trip to the Arctic regions, and as I know you are deeply interested in the Conifera I send them out to you for examination, and request that you will return them when through.

I desire they shall be placed in the Collection of the Acad of Nat Sci of Phila^{a}. Hoping you may be in good health I am

Sincerely Yours
Josiah Hoopes

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GEORGE ENGELMANN PAPERS

Josiah Hoopes,
Abner Hoopes,
Geo. B. Thomas.

Rec May 26
Ans —— 4

Hoopes, Bro. & Thomas,
Cherry Hill Nurseries,

West Chester, Pa 5/23 - 1883

My Dear Doctor

Your Kind favor of the 20th
just to hand. I gave this Arctic
Pine a careful study, but somehow I cannot read it as you do.
The Cone is very evidently to my
mind, immature, hence the
apophyses are not fully developed
to their full length, and do not
show the keeled reflexed apex,
which is one of the marked characters of P. Koraiensis. I cannot
think it is either P. cembra, P.
Mandshurica, or P. pumila, as the
foliage differs from them all.
The cones of Cembra are essentially
different, and the foliage very. I
have never seen the fruit of P. mandshurica, but it is certainly distinct from
it. P. pumilio I think is out of the
question. After all may it not be

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a new species? If so it is very near P. Koraiensis. I have just rec'd a copy of Britton's "Manual of Conifers", and Dr Masters "Japanese Conifers". Both are interesting particularly the last. I am quite pleased with the recent classification of the Retinispora by Dr M. He writes me that all my specimens are identical with those in English Collections. I wrote a little paper for the Academy of Nat Sci on this Pine, and when published will send you a copy. I will mail you after a little, a twig of Pine leaves &c, especially of the Strobi group. Have you good specimens of P. Cembra? I am sorry I have no cones at present. Please look at the leaves with those sitting on this new pine as identical with it.

Yours faithfully J. Thorpes